

**WHAT IS CLAIMED IS:**

1. A method for producing fine spotted arrays of molecules comprising the following steps:
  - (a) immobilizing a plurality of affinity anchors onto the array;
  - (b) preparing a plurality of molecules of interest having affinity for the anchors;
  - (c) contacting the molecules of interest with the array; and
  - (d) washing the array to remove unbound molecules of interest.
- 5 2. The method of claim 1 wherein the affinity anchors are selected from the group consisting of biotin, streptavidin, a peptide, an antibody and an oligonucleotide.
- 10 3. The method of claim 1 wherein the molecules of interest are selected from the group consisting of a peptide, an antibody and an oligonucleotide.
4. The method of claim 1 wherein the affinity anchor molecules are attached to the array by a linker molecule.
- 15 5. The method of claim 1 wherein the affinity anchor molecules are attached to the array by a cleavable linker molecule.
6. The method of claim 1 wherein the array comprises at least about 100 electrodes.
7. The method of claim 1 wherein the array comprises at least about 1000 electrodes.
- 20 8. An array of molecules produced according to the method of claim 1.
9. An array of molecules comprising a plurality of affinity anchors and a plurality of molecules of interest bound to the affinity anchors.
- 25 10. An array according to claim 9 wherein the plurality of affinity anchors are selected from the group consisting of a biotin, streptavidin, a peptide, an antibody and an oligonucleotide.
11. An array according to claim 9 wherein the plurality of molecules of interest are selected from the group consisting of a peptide, an antibody and an oligonucleotide.
12. An array according to claim 9 further comprising at least about 1000 electrodes.